

ATCC 20334.

95. The trichodiene synthase of claim 90, which is encoded by the nucleic acid sequence of SEQ ID NO:1.

96. The trichodiene synthase of claim 90, which is encoded by the nucleic acid sequence contained in plasmid pTri5 contained in *E. coli* NRRL B-30029.

97. An isolated functional fragment of the trichodiene synthase of SEQ ID NO:2, wherein one or more amino acids are deleted from the amino and/or carboxyl terminus of SEQ ID NO:2.

98. The isolated functional fragment of claim 97, which is obtained from a *Fusarium* strain.

99. The fragment of claim 98, wherein the *Fusarium* strain is a *Fusarium venenatum* strain.

100. The fragment of claim 99, wherein the *Fusarium venenatum* strain is *Fusarium venenatum* ATCC 20334.

101. An isolated trichodiene synthase obtained from a *Fusarium venenatum* strain comprising an amino acid sequence which differs by one, two, three, four, or five amino acids from the amino acid sequence of SEQ ID NO:2.

102. The trichodiene synthase of claim 101, wherein the *Fusarium venenatum* strain is *Fusarium venenatum* ATCC 20334.

---

#### REMARKS

Claims 79-89 have been canceled. New claims 90-102 have been added and are pending in the present application.

It is respectfully submitted that the present amendment presents no new issues or new matter and places this case in condition for allowance. Reconsideration of the application in view of the above amendments and the following remarks is requested.

#### I. The Rejection of Claims 79, 81, and 83-89 under 35 U.S.C. § 112, First Paragraph

Claims 79, 81, and 83-89 stand rejected under 35 U.S.C. § 112, first paragraph, "as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention." The